

The following Listing of Claims will replace all prior versions, and listings, of claims in the application.

LISTING OF CLAIMS:

1. (Currently Amended) A scroll fluid machine comprising:
at least one first scroll having a spiral wrap formed on an end plate, the first scroll being a stationary scroll;
at least one second scroll having a spiral wrap formed on an end plate, the second scroll being a moving scroll; and
an adjustment member provided to adjust an amount of a space between the wrap of one of the first and second scrolls and the end plate of the other one of the first and second scrolls,
the adjustment member including a deformable element which changes shape according to external input, only the first scroll being provided with the deformable element.
2. (Previously Presented) The scroll fluid machine of claim 1, wherein the deformable element is formed at a tip of at least one of the wraps and changes shape along a height of the wrap to adjust the amount of the space.
3. (Previously Presented) The scroll fluid machine of claim 1, wherein the deformable element is formed at a tip of at least one of the wraps to extend over a spiral of the wrap, and
the deformable element changes length along the spiral of the wrap to adjust the amount of the space.
4. (Previously Presented) The scroll fluid machine of claim 3, wherein two or more deformable elements are formed along the spiral of the wrap.
5. (Previously Presented) The scroll fluid machine of claim 1, wherein the deformable element adjusts the amount of the space to vary a capacity.

6. (Previously Presented) The scroll fluid machine of claim 1, wherein the deformable element adjusts the amount of the space to vary an angle of rotation at which fluid discharge begins.

7. (Previously Presented) The scroll fluid machine of claim 1, wherein a working chamber is defined between the first scroll and the second scroll and a discharge port for discharging fluid from the working chamber is provided with a discharge valve, and

the wrap is configured such that a capacity of the working chamber becomes substantially zero after discharging fluid is terminated.

8. (Previously Presented) The scroll fluid machine of claim 1, wherein the deformable element is provided at a tip of at least one of the wraps and also functions as a seal between the end plate and the wrap.

9. (Previously Presented) The scroll fluid machine of claim 1, wherein the deformable element is disposed in a recess formed at a tip of at least one of the wraps, and

the recess is formed such that a wall of the recess including an inner circumference surface of the wrap has a thickness different from that of a wall of the recess including an outer circumference surface of the wrap.

10. (Cancelled)

11. (Previously Presented) The scroll fluid machine of claim 1, wherein the deformable element is made of a polymer actuator.

12. (New) The scroll fluid machine of claim 1, wherein the deformable element is configured and arranged to extend from a bottom to a top of the spiral wrap of the first scroll.

13. (New) The scroll fluid machine of claim 1, wherein the deformable element has a property of bending according to voltage application.

14. (New) The scroll fluid machine of claim 1, wherein one of the spiral wraps is longer than the other of the spiral wraps.